

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
17 March 2005 (17.03.2005)

PCT

(10) International Publication Number
WO 2005/023309 A2

(51) International Patent Classification: **A61K 47/48** (74) Agents: MACLEAN, Martin, Robert et al.; Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL (GB).

(21) International Application Number:
PCT/GB2004/003904

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AR, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
13 September 2004 (13.09.2004)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KB, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
0321344.4 11 September 2003 (11.09.2003) GB

(71) Applicant (for all designated States except US): **HEALTH PROTECTION AGENCY [GB/GB]; Porton Down, Salisbury, Wiltshire SP4 0JG (GB).**

(72) Inventors; and

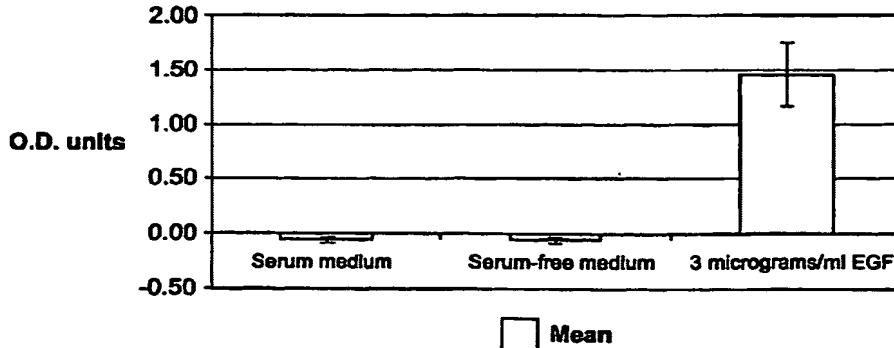
(75) Inventors/Applicants (for US only): **FOSTER, Keith [GB/GB]; Health Protection Agency, Porton Down, Salisbury, Wiltshire SP4 0JG (GB). CHADDOCK, John [GB/GB]; Health Protection Agency, Porton Down, Salisbury, Wiltshire SP4 0JG (GB). PENN, Charles [GB/GB]; Health Protection Agency, Porton Down, Salisbury, Wiltshire SP4 0JG (GB).**

Published:
— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RE-TARGETED TOXIN CONJUGATES

Mucin release from NCI-H292 cells into medium over a three day period



(57) **Abstract:** The present invention provides a method for designing a re-targeted toxin conjugate for use in treating a medical condition or disease. Also provided, is the use of said conjugates in the manufacture of a medicament for treating medical conditions or diseases. The conjugates include a Targeting Moiety, which directs the conjugate to a desired target cell, and are characterised by a Targeting Moiety that increases exocytic fusion in the target cell. The present invention also provides methods for identifying agonists suitable for use as Targeting Moieties, and methods for preparing conjugates comprising said Targeting Moieties.

WO 2005/023309 A2

BEST AVAILABLE COPY